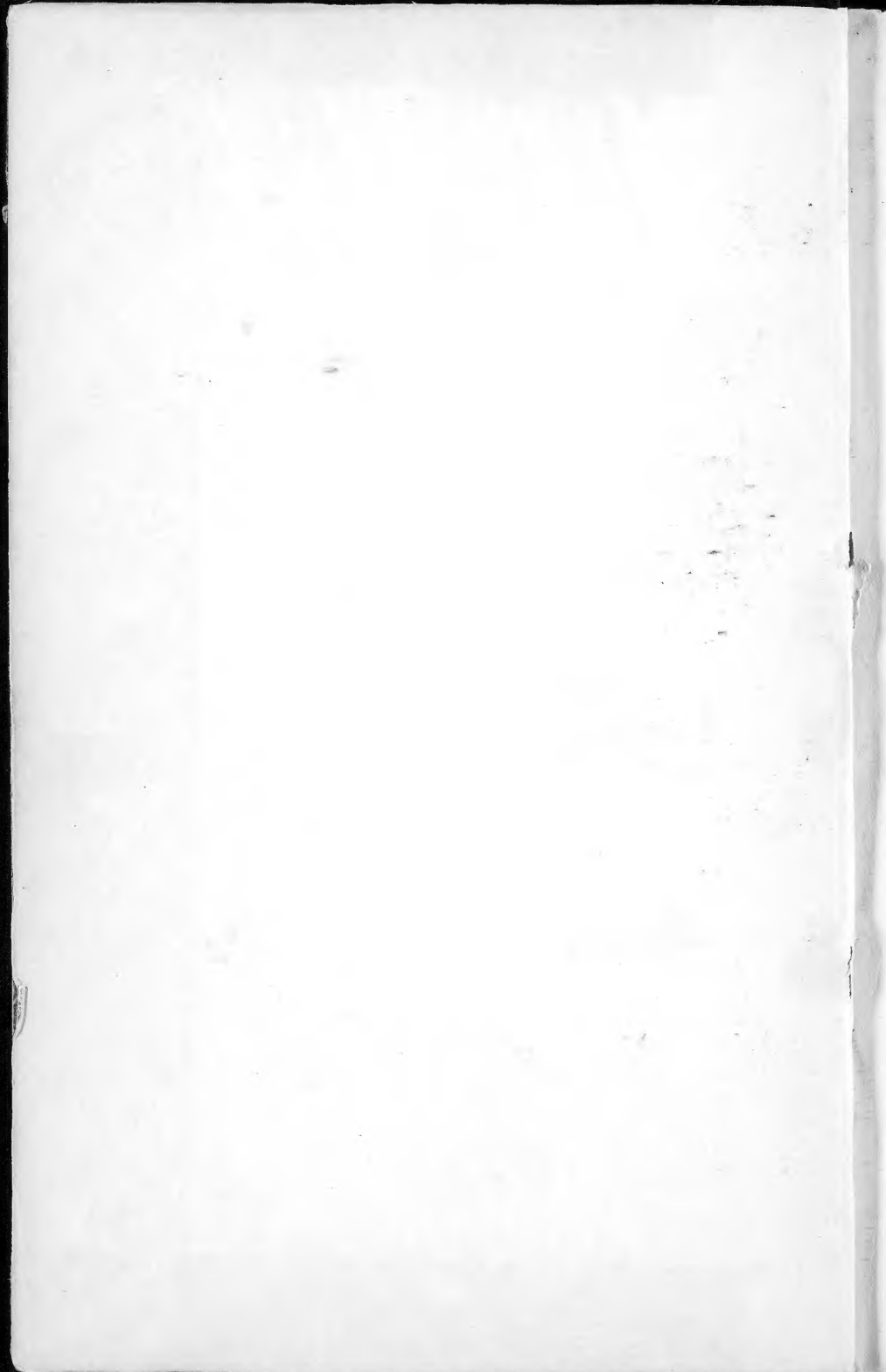


Harvard Coöperative Society.



Fernald

(5)

June 29, 1904
On the "Admiral", Baie des Chaleurs.

Left Boston Sunday night, the 26th on the 7 o'clock to St John, arriving there at 10.40 ^{Monday} where I was met by Gen. Hay with whom I explored the ballast lands & wharves before lunch - Matricaria discordea & modica abundant, also Diplazis muralis sc., & three frad-farnus of Capsella. Lunched at The Hay's, meeting Mrs. H's, niece, Miss Harriet from Canada. After lunch Mr. J. Brittain called & joined Mr. H. and me in a walk about the St John park-system. Northern plants as expected. In a bog Galium labradoricum, Rhamnus, Leupetrum, Carex Hudsonii, Triglochin maritima, etc.

Took 7 P.m. night train "Maritime Express" to Miramichi, but discovered five minutes before leaving that no dining car until breakfast & no buffet. So quick lunch of 1 sandwich & an orange for dinner. To bed at 8.30, awoke out at Miramichi at 3.15 a.m. With 4 1/4 hours to wait and a clear morning light, devoted myself to following all roads to safe distances from the Station. Repulse French Canadian small village with cluttered nasty streets & broken sidewalks. Best balancing of the morning a half mile down the Restigouche. There in thickets with the sycamore abundant Acer, can. & riparia & Sorbus macrophyllum a large colony of Osmanthus confertifolius & a small patch of O. divaricata. Thalictrum tursuta on R.R. gravel. On ledges Astragalus alpinus, Oxytropis camp., sc., Johannowia, Hyssopus, Anemone multifida, Senecio Balsamitae, etc. abundant. Viola (glabrous plant of the St. John & Brookville) abundant in gravel, in flower (clear violet) next the water in front with blue.

capoules on the talus & slopes above. There
mingled with Poa alpina americana, etc. One plant
of Poa alpina in a wet crevice, with Trisetum
& Carex capillaris, var. elongata.

Train of Atlantic & L. Sup Ry of course late (15 min)
in starting. Same fat French-Scotch Condr, with
black moustache & ruddy face. Same caboose car,
on the up-grade just beyond Beaumonde station
the engine broke down - literally one of the pipes
broke off - and caused so nothing, so we slid
down the slope as far as gravity would take us
and waited while the conductor walked back $1\frac{1}{2}$ mi.
to Oak Bay station, to telegraph (no telegraph at
Beaumonde sta.) The west-bound train at noon
brought the General Manager, Seales, on his way to Carleton Place,
& the assurance that the other (3^d engine) of the road would
be there shortly, the fourth engine being in repair shop -
all day we waited by the disabled train, and at 4 P
went with a Montreal drummer, Percival, and a
St. Godfrin, Bonaventure, merchant, Le Gallien, a
man of Jersey origin, who had never before left the
region of Paspébiac & was now returning from
a wander of two days in Montreal & Quebec. We found
a farm, Brown's, where we were cordially taken in to
bread & milk. During the wait I explored a big
salt marsh which was covered in distinctly colored
patches with Carex maritima, C. norvegica, C.
glauca, Scirpus riparius, & Juncus balticus, with

Snada & blamye. mixture. Its border has
Carex aurea & Galium labradoricum & a thicket
with Rosa lucida unbudded, Prunus virgin & Vib.
Opulus in flower -

An expedition to Essequima R. for water shows
Viola of Aroostook & Testifouche abund. here. The 3^d-
engine of the road arrived at 7 p.m. - 9 hours after
the breakdown - she herself having given out near
Caledon & having to lie by for repair. Supper
at 8, 30 at Giroux's, decent food, good cedar swamps
near & Tracadie Mt. within reach - as the
RR, water tank in Caledon under the big cliffs, the
sandstone - conglomerate contact with Thuya, Shepherdia
& Artemisia sp. - (young). As. New Carlisle soon

after 1 a.m. too late to spend the afternoon in the
Willow beach I had planned. Put up at Menard's.
Tolerable. Menard fractions & anxious to please, but here
as everywhere else in ~~the~~ ^{the} too much gin.

This morning called at Caldwell's - C. Saber! Lawrence
as usual. L. thinks he may be a brother-in-law of E.F.W.,
for L's sister-in-law "out in them parts" has written that
she is going to marry a man named W. who has 10,000
in the bank!

Menard was to get me to the boat at Passobie, as
she has not touched at N.C. since she smashed herself
there against the wharf. So my trunk taken early to
P. The method is to guess whether the Admiral will
touch at N.C. or P. Maybe she will, maybe she
won't. This time she stopped at N.C. & we drove back.

Met at boat by Cyrille Leroi, Guardian of
the Grand River. Cyr. a gentlemanly Indian.
Too late to go up river tonight, so Cyrille
leaves me at the comfortable home of John
Carberry.

June 30 -

After breakfast find a pubescent small
form of *Ranunculus abortivus* in grassland.
Mrs. C. directs my attention to a small Cera. swamp
where "orchids" (*Samolacina*) grow. Great *Ornithoglossum*,
Ordinary Cera. swamps things, & among them *Scirpus*
caespitosus, many good willows, *S. candida*
here, ^{near life} seeming ~~to pass~~ to *S. glauca* splendidly fruited,
S. Chamae-Amygdali, low sprawling shrub with glossy
foliage, but as at N.C. in 1902 no fruit. *S. mytilifolia*
etc. The *Viola* of Marshall swamps
abundant & beautifully flowered, clearly a bog
state of river-bank plant. In the mossy knolls
under *Empetrum* & *Ledum* *Rubus arcticus* in
beautiful flower - flowers rosy pink, the leaves
lustrous, firm & slightly glutinous. Some plants
with habit of *R. triflorus* & seeming to pass into it.

Cyrille came at 9 & with his son John took
me up river. Splendid cliffs almost the length
of the river, with occasional alluvial or
gravelly flats. The common trees -

White Spruce, Arbor Vitae, Fir, Balsam Poplar,
Populus amur. & Sitchka both flowering, and
low growth of Alnus ^{molli's} europ. & sinica. Tabernaem.
Opulus & pauciflorum - Prunus birg. & Corylus hast.
On the beach below Cyril's Salix glaucophylla,
pellita, canada, macrocarpa? & a large erect
shrubby species (10 ft.) possibly S. argyrocarpa -
We meet Messrs. Cabot & Richards fishing at the
Grand Camp. Mr. C. a tall very man of 70+,
cordial & hospitable. At the Grand Camp the
beach covered with various strange willows -
the common grass Poa alpina, the common Carex,
C. concinna on rocks or in alluvium or on knolls,
like Maine C. deflexa, C. capillaris everywhere.
Two Antennarias abound one resembling petaloides,
the other apparently the Mattawamkeag R dwarf.
Viola conspersa in alluvium with Poa albosides
Equisetum pratense, Polygala pauciflora (infl.)
Petasites (3-4 ft.) Viola scaberrima, & Tomentaria
obovata! Senecio Balsamitae very variable,
perhaps two species. Carex echinocarpa everywhere
& Anemone parv. in fruit on all rocks &
camp ground. Epilobium Hornemannii on the
beach near the cove, & some small patches of

Dryas Drummondii, *Veronica serpy.* &
var. borealis both frequent - *Ranunc.*
repens in recently disturbed places,
obviously introd.

Reach M. Cabot's
camp at the junction of the two main
branches at 6 & I am given a whole dog
camp, well equipped, to myself - Beautiful
place, with dipping ^{slate} cliffs opposite.

July 1.

Up river in Gaspé Canal as far as Round
Rock point in Trarneau township - 14 mi
from mouth. Ledges, cliffs & gravel
covered with many handsome species -
Oxytropis campestris, var. *johannensis*,
occasionally dwarfed in steele banks &
with capitate clusters. *Hyoscyamus*, *Primula*
mitis, *Asarum*, *Asarum parviflorum*, the fls.
with with lavender to blue tinge outside at base.
Pinguicula vulgaris beautiful
Taraxacum alpinum abundant, bright
clear yellow. *Cornicula* ^{alp.} handsome, just
coming out on the shelves. *Thalictrum*
alpinum forms almost continuous
dark glossy green carpet, wherever moisture
& shade. Stamens deep orange brown -

Sheplaria looks silvery green at distance.
 Achillea Millefolium local. More than
 willows. Sisyrinchium splendid,
 the very pale green wings & leaves
 scabrous. Cypripedium spectabile
 by the roadside in gravelly or sandy
 alluvium! with Samolus aureus, Populus
 & the new Geranium which is flowering
 moderately this year. Ceanothus
leucanthus abundant in fine flower.
Cypripedium pubescens & parviflorum
 & Valeriana sylv. abound everywhere
 in rock crevices! Cold shaded cliffs
 at Round Rock covered with Gutierrezia,
Pellaea gracilis & a few plants of
Hesperis. ^{Montana} Asplenium platyneuron, H.
montanum. Aralis lucida & Draba
arabizans on sunny cliffs & talus.
 (over)

July 2.

Hot & muggy. Drove north to Grand Coulee
 Salmon Lake, went river, though
 hundreds of them in river. No ship.

carpeted in spots with

small July 1st

Most finely leaved & colored
carpeted for acres with Dryas
acuminata - clear yellow half-
saddled fls -

The Anemones prevailing - fine
typical A. hepatica, & frequently
found A. multifida with red or
white fls. Large plants 2 ft.
high like repens but leaves of
multifida - often similar but
fls. red. the most splendid species
of the genus - if new, A. Richardsoniana.

from above -

Scapellato spinosa, always in
mass. Deep cold crept along
and top has Asplenium viride
& Asplenium platyneuron.

July 6

To Rivière du Loup & Fort Kent -

The following were in flower on the river
the 1st week of July -

Clamato verticillaris

Anemone peruviana

" *multifida*

" *Richardsonia*

" *serotina*

" *canadensis*

Thalictrum polygamum

" *algidum*

Ranunculus cymbalaria

" *abortivus*

" *repens*

" *sept*

" *serot*

Callitriche

actaea rubra

Saxifraga

Linum catharticum

Urtica dioica

Draba araliensis

Viola Cabotii

" *blanda*

" *purpurea*

" *canadensis*

" *serotina*

Stellaria media

Oxalis acetosella (rarely)

Acer spicatum

Polygala frondosa

Trifolium repens

Cryptantha (rarely)

Delphinium (rarely)

Ranunculus (rarely)

Rubus (rarely)

Rubus arcticus

" *triplex*

" *strigosus*

Lupinus (rarely)

Linum (rarely)

Trifolium (rarely)

" *repens*

" *americanus*

Potentilla fruticosa (rarely)

" *canadensis*

Pyrus americana

" *syriaca*

Crataegus (rarely)

Amelanchier (rarely)

" *ligustrina*

" *racemosa*

Nicotiana

glauca

Cypripedium pubescens

" *puberulum*

" *puberulum*

Epipactis atrorubens

Epipactis atrorubens

Epipactis atrorubens

Epipactis atrorubens

Epipactis atrorubens

" *puberulum*

Climacium

Talictum glabrum

Talictum glabrum

Talictum glabrum

" *puberulum*

Epipactis atrorubens

Epipactis atrorubens

" *puberulum*

Epipactis atrorubens

" *puberulum*

" *puberulum*

Epipactis atrorubens

" *puberulum*

" *puberulum*

" *puberulum*

" *puberulum*

" *puberulum*

" *puberulum*

C. caperatum

limbata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

aurata

Microstylis

avena atrata

avena atrata

avena atrata

" *alutacea*

July 5-10 Fort Kent with
Prof. Day,

July 11 Start with Collins for the
L. Lawrence - Min. show to Min. Brook.
on train bound due to Saginaw - Tenile
mixed train. First half of trip to 2nd
class end of car filled by trunked
miners. Dinner at Hotel Dame du Lac -
dr. at R. in L. in shavers - St. Lawrence,
Wesley Lager - Ladies decide to wait over
the night weather. Get food rooms to 11⁰
P. M. start work after supper -
P. M. course in fine fl.

July 12 Drive in morning to the big marsh
R. in L. & Lacuna - *Pipula minor*
just passing from bloom - *P. asarifolia*
in woods mostly white, with faintest tinge of pink.
In grass by roadside a large *Campanula*
abundant. Fls. clustered resembling *Androsace*
Androsace. Big marsh in fine order -
Pedicularis palustris
with it in spots *Stellaria humifusa* & *S.*
Crassifolia. *Microst. monoph.* abundant.
also *Thymus rufus*, small *Parrot Goodenium*
etc. Drive back in fl. for the first time.

In P.M. All road along shore below
Pocahontas, Thel. confinis. Zygane
mostly full. Montia local. Poa
glumalis in fine shape - Carex suavis
abund. on crests but mostly past. A
few - Rumex, abund here as
in some places.

C. & I follow Tenise. Height thick
Tenn. Forest. Remark - Divaricata &
Poa glumalis abund. Eleocharis comosa in
C. & I. In some places in forest
some small spots.

Fog continues

July 13 - C. Mrs B. & I drive to
Harris Falls. Lithosp. offic. common at
Falls. On rocks below falls
small Hieracium magister. Cypripedium
infr. By falls - Aspid. frag. scarce.
Saxif. virgin. in fl. but local - Poa alpina -
etc -

P.M. clear. To Chisankui with the
Lewis. Splendid evening. 1 - seen in an
Lawn above Tadousac.

July 14. Stunning day down Capemont

Land at St. Pierre, Azores! Bay, no interesting
plant.

During noon walk at Tadoussac
Commanda of Nano R. found in sand near
the Hotel. fls white or crimson tinged. Yucca fr.
also black yucca & Carex Hortoni abund
in Cemetery

in dunes -

Group Sabina & Pinus Banks

Return to R. Dr. L.

Ladies go on to Que. In evening, C. &
walk to Fairville for shopping -

Jul 15 To Bic. Heat town. - fair
Hotel kept by Michel Pinaud, simple
but good fare. clean - accomodating.

C. & I get use of large sample room for
our work. Take short walk before supper.

to see headland by wharf - Shepherds the
heavily shag with white downy young -

Aphronotus - etc.

After supper walk back to town, Rich spring,
woods - *Erigeron acer* on ledge

Jul 16 With comfortable buckboard of C. &
order of a ... before for the trip

First to the 1st island east of the town

Crossing at low tide, This a cliff
sandstone with big coarse in the conglomerate
sandstone & flinty rock - *Agrilecia* can,
abund. *Draba* *viridis* everywhere dead: pe
Trigonostemon either pink or cream-white.

Trifolium *aurum*, everywhere with 1 or 2 abt. of
yellow fr. *Saxifraga* *virg.* fr. *Potentilla*
italica tall & from in glade. *Astragalus*
can. *Ranunculus* in fl. - *Primula* *farinosa* abund
in fruit, a few in fl. in cold caves -
Saxifraga *hirsuta*, *virg.* *Microstylis*
mon. abund. everywhere in crevices & on rock.
Poa *flavescens* & *maritima* in high places, &
some beautiful *orchids* & *fungi*.

On Island beyond 1st met. to low tide.

Return to mainland & drive around to *St. Anne*
de Michaud. Then cross to island east of *St. Anne*
Baptiste Michaud's. That a fine conglomerate
sandstone. *Saxifraga* *oblonga* everywhere.
Symphoricarpos *pauciflorus* on dry slopes,
& a pale crisp *Hedera* ^(leucocarpa) *abund.* in exposed
crevices. *Dicella* ^{*arenaria*} *complanata* stands in
dunny places, *Thalictrum* confine one
clump on shore - Tide forces are to return

Chambers. To explore mt. west of
Nichols. Steep slaty & liny rock,
with big cliff above, 500 ft. by C's
survey. Ordinary fl- of alpine mts.
(Spruce woods. Cliff covered with
Lupinus, fragans, which becomes abundant.
We walk on it. Here test our glacier
rope & find it a splendid means to explore
cliffs & lower slopes. By means of it
find Saxifraga caesp., to spend much of
afternoon exploring from above for the scattered
tufts. Lycopod & Selago scattered.

An omnium Lycopod, complanatum (typical)
fully fringed. Cornus circinata com-
mon. Thymus fl at 2 ft. Have my foot
thrust. Chamaecyparis, Cicuta etc.
Many Backü about on crest & so. slope.

July 17. Drive to big exposure
Exp. west of yesterday's loc. Perhaps
low. west. beyond Cretaceous fields.

At West base of yesterday's last fire
Quercus douglasii? among firs. In
low woods *Andromeda* sp. In
clearing *Leucophyllum* beautiful. fls.
white with bright yellow eye.
Gentiana *acuta* in fl. in dry fields
So with rope up cliff at head of cave.
Solid. *Populus* very abundant. Soon find
^{Red Cedar} *Juniperus* in damp pockets of slate
rock. But while collecting it I break open a
yellow-pinkish one. Escape gradually with
the rope with 7 steps - *Saxifraga*
repens *laevis* getting common.

On west *Lyceum* *concolor*. The rich
woods of evergreen be leaves of *Juniperus*
var. *horizontalis* & among these *Hale*. *Juniperus*
horizontalis *repens* in fruit abundant. We soon
cease hesitating to hang on them!

Down by rope at edge of the first cliff -
Quercus *laevis* - about 60 ft. Remains the
oak leaf in a cave at the top. *Juniperus*
repens abundant. In damp places *Woodsia*
glabella & *Glaucium* the other ^(Lycopodium) *Lycopodium*
complanatum *laevis* *repens*.

being by means of rope & chains, by crane
lift. Difficult work but Potamogeton nodosus
Estuaire brevifolia, Stachys angustifolia, &
small Kalmia latifolia etc. -

Very common in our plot - Aster multiflorus
common but never fruiting here.

At base of cliff. Poor soil. In some places
the soil is covered with large stones full of holes.

June 18. To Cap north of Pointe à la Pêche.
Soil like yellow clay - but colder & drier.
Stachys angustifolia & Stachys here in fl. Potamogeton
nodosus here in fl. Stachys here in fl.
Stachys simplex in damp places. Potamogeton
nodosus here. 1 large spring Asplenium flag
measured 16 1/2 in. tall! Poor soil - first in fl.
Asplenium here. Asplenium here.

In moss on cliff south of Pointe à la Pêche,
above river. Asplenium -

Asplenium at low water to 3-4 ft. up

June 16 - East of Pointe à la Pêche, Asplenium
here in fl. Potamogeton here in fl.

except the mat 3 ft. solid.

Crest ^{Barrel} ~~at~~ ^{about} in front on hot

2/20/19. One ledge covered

with *Agave* ^{Coleman} ~~fronds~~, Damp ground

Below *Sax. Tompkinsonii* ~~fronds~~.

Dryas ~~arbuscula~~, *Trichomanes* -

Euphorbia ~~viridis~~, *Agave* ~~bracteata~~ ^{fronds}

all over. Crest *Barrel* on dry slopes

Take 12.42 train to Matapetia -

July 19 - 2.45 am, arrive at Matapetia.

Train containing people & food arriving.

Follow *Restigouche* for mile down river

Breakfast on rocks. In addition to

plants of June 28 *Astagalus* *elephas* in fruit

fr. at wooded crest of ledge - *Arenaria*

Richardsonia abundant, with *Agave* just below

& *Yucca* fruit. A multigrid dead ripe fruit

Agave - a ripening *Agave* but not flying.

Senecio *Bals.* with & without rays

Carapax white & red - fruit *Actaea* *rubra* &

can detect no other diff.

By 10 P.M. to Yonville station, Put up
at Custom House. run by Albion

Trunks in general store, wherever an empty
corner. This P.M. St Jean l'Evangéliste.
Yonville P.O. 4 miles up river at P.P. sta.
Yonville West!

Then drive up river to find the old cemetery,
Valley flat & fertile, good crops - Then with
plants, Sandwichia vicina full of Oenothera
lutea, Portulaca, Centrosea in ligna - Linum catenula,
Senecio - & bell, Carex oenea salicifolia, Linum
catenula & repens, Elm, Sugar maple
& Bassia lutea fruticosa fruticosa

After supper to bag back of house
in the Pyrola intertexta with large
gemmae white fragrant! Ranunculus!
bag to be exposed later.

July 20. All to bag which with Staphylinus
of Homocidus diversus might be in Mares. -

Ranunculus, Pyrola intertexta, Picea nigra, Saxifraga
hypnoides, Andromeda, Kalmia etc, Then up
rocky slope covered with Pyrola pop -

Rhus typhina. Two spec. *Botrychium*
simplex in crevice. Scattered *Botry*,
fructuatum *intense*. Then through sparse
woods - *Equisetum* *comp.*, *tristachyum*,
Salmagol, *utahense*, etc.

Then down river to Bascher's vs
Novellek. In alluvium of river
Clematis *virg.*, *Ranunc.* *acris*, *Acer.* *sab.*,
Syringa, *agast.*, *Bidens* *froid.*, *Prenanthe*
rac., *Thalictrum* *rac.*, *Carex*
intrinsecus & *communis* —

On Bascher's river any salt marsh
things.

July 4. To Caletan, excellent
accommodation at Chile's Hotel with the
shell of an empty store for our work.

River along beach to point opp. Light-
house. Cattle on beach. abundant
Medicago *lup.* & *Echinops*. *Hipp-*
Stellaria *longipes* *laeta* *Eumyrtos*
gravel, *Botrychium* *lunaticum* scattered,
Gilia *linearis* in small patches.

July 29. Am. Short walk to salt-marsh
near town. *Parnassia pauciflora* in damp place with
Scirpus pauciflorus. Marsh ordinary. *Hypoxandrus*
abundant on gravel banks about town, also *Artemisia*
absinthium. Collected various common things.

Pm. To Tracostigash Point. Far better than
Caledon Pt. *Arenaria maritima*, *Silene conopsea*,
Arenaria trisulcata & *A. brachycarpa* abund. in sand &
gravel. *Batrachium*. *Lumina* very abundant &
amongst *Juniperus Sabina procumbens*.
A small *Grass* *Poa* & the *Lumina* group abund.
Agropyrum turgidum, *Carex stenocarpa* & a slender
perennial-stemmed *Equisetum* scattered.

Jul. 23. Horn Point. *Sodium bicarbonatum*
in rocks. By brook near mile *Juncus repens* &
repens. *Lilia* abund on gravelly bank.
Peak as at 10.15.

Pm. Up the small hill south of Tracostigash
Pt. *Papaver Rhoeas* & *Pentstemon* & *C. Scaberrima*
in grain fields. Hard to rock provided to climb
gritty clay-rock, sharp & not easily. Tough
digging. *Georgina* a *Georgina* local. *G.* —
somewhat like tree. *G.* flowers creamy with
bronzes tips & fragrance of *Spionius* *Camellia*
just beginning to flower. *Doronicum* *shigas* abund.

Festuca — Common in meadow at Summit
(850 ft).

July 24. To Tracadigash Mts. Grass on
granite soil and stone conglomerates. Stays
in edge of large Cedar Swamp — Orchis
muscicolaria fruiting abundantly. All the young
saxifrages develop under the leaf, i.e.
found in protected position. Epilobium palustre
& alpinum. Listera ovata, latifolia, alberta,
Smithii, Kalmii, Carex gymnocarpa etc. An
Siapherium near palustre but very
slender small & few-flowered.

Through burn now covered with
saxifrages. Fine forest. Then up steep rocky
slope through white birch forest. Caribou
tracks & droppings everywhere. Occasional
bear signs. Slope a dense tangle of
Clematis verticillaris in places. Fine
steep hard but very loose shale
rock. Carex Backii abund. from 1100
ft to Summit, which Collins' aneroid
(corrected) makes 1920 ft. Cliffs under
the summit are 150-300 ft high with
long dry talus slope below. Page 23

work in one direction, C in other. At first
 sight barren - except for carpet of Aspidistra disper.
Draba silensis & arabizans - various Peas & Patent Ind.
 At base of cliffs Aspidium Louchei abund.
Pellaea fracta abund. also Aspid. fragrans.
Slender Salomagnus in (whitish) on moist
 exposed places. Rills resembling Aspid. disper.
~~but~~ but with exs. - downy leaves & spines at
 spines, abund though mostly sterile. Patent Ind.
lividus & Rosa blanda on cliffs may be common.
Schizospermum deflexum in thickets on shelves -
 On chimney between recently burned cliffs & that
 below the coarse Schizospermum deflexum, Asplenium viride
 in cold crevices - Lycopodium secus, frag.
Carex pratensis on slide. & in a narrow P. frag.
 sterile plant perhaps of Lilium in procurum.
 July 26 To ^{Dalhousie} ~~St John~~ & back down by Blackstone
 are not recognized in Gaspé!

Aug 17. First spar made to take the time
 taken to travel for a journey -
 nothing, as usual, for the time.



Plants of Alpine and Subalpine Regions
Mt Albert, 1905, '06.

Equisetum arvense

Allen's Ravine up to 3000 ft.

E. pratense.

Allen's Ravine up to 1800 ft.

E. sylvaticum

Allen's Ravine, in wet places to the crest.

Selaginella selaginoides

Wet hornblende or serpentine slopes and in bogs.

Lycopodium Selago

Hornblende and serpentine slopes -

L. Selago, var. appressum

Hornblende crests.

L. lucidulum.

Woods of north slope, to timber-line.

L. lucidulum, var. parophyllum.

Camp at timber-line, north slope.

L. annotinum.

Slopes -

L. annotinum, var. pusgens -

Crests (hornblende)

L. sitchense

Scrub spruce, etc. of Flagstaff Peak, and at head of
Asbestos Brook.

L. alpinum.

Damp north slope, on hornblende.

Polypodium

Phegopteris polypodioides

Damp slopes, alpine meadows, etc.

P. dryopteris.

" " " " "

Adiantum pedatum, var. aleuticum

Serpentine from the Crests to Lac des ^{deux} Diables.

Locally on upper tumbled in ravines where seemingly washed down from top -

Pteris aquilina.

Among low spruces along Snow Brook.

Cryptogramma densa.

In dry serpentine, southern slope of Devil's Gulch -

Asplenium striatum.

Small plant in wet " " " " " "

A. Filix-foemina.

Abundant on damp slopes.

Polystichum scapulinum.

Southerly slopes, on serpentine (usually dry) Asbestos Brook and Devil's Gulch.

P. Braconii

Along Ravine below timberline.

Aspidium fragrans.

On a boulder in the road, Macoun's Brook.

A. spinulosum, v. dilatatum.

Damp slopes.

Cystopteris bulbifera.

Macoun's Brook.

Cyrtopteris fragilis.

Macoun's Brook. Allen's Ravine below 2500 ft.

C. montana

Macoun's Brook. Allen's Ravine below 1500 ft.

Woodsia ilvensis

Hornblende slope north of Flagstaff Peak.
Allen's Ravine.

Osmunda Claytoniana

Hornblende Slopes.

Oxoclea stuebelii.

Allen's Ravine, below 2000 feet.

Larix laricina

Sea level and dwarfed on serpentine to the summit.

Picea canadensis

Chiefly on Hornblende.

P. mariana.

Abundant but dwarfed on Seep., rare on Hornbl.

Abies balsamea.

General, but dwarf.

Thuja occidentalis.

Allen's Ravine below 1600 feet.

Juniperus communis, v. montana.

General, most abundant on serpentine.

Hieracidae adonata

Bag south of Flagstaff Peak.

A. alpina

Hornblende Crest & crevices.

Eryzopsis asperifolia

General in damp open places.

Milium effusum.

Macourine Ravine. Allen's Ravine up to 3000 ft.

Phleum alpinum.

Common on Hornblende slopes.

Cuma latifolia

Common on slopes and meadows.

Agrostis borealis.

Common on slopes.

A. hymenalis, v. geminata.

Snow Bank, Devil's Gneiss.

Calamagrostis canadensis.

Common

C. Langedorfii.

Hornblende slopes, near crest.

C. neglecta, v. borealis.

On the serpentine by small pond above Allen's Ravine, also on serp. small pond at head of Ruissseau à Plaque à Malade.

Deschampsia caespitosa, v. alpina.

Common on scarp.

D. flexuosa

Common

D. atropurpurea

Boys and meadows. Hambl. slopes, following
down brooks of north side to 2000 feet.

Melica striata.

Common

M. striata, forma albicans.

Common.

Trisetum subspicatum, v. malle.

Allen's Ravine.

P. melicoides.

Macoun's Brook.

Xanthoxia spicata

Devil's Gulch. Snow Brook.

D. intermedia.

Bag, head of Asbestos Brook.
Asbestos Brook, Snow Brook, and Devil's Gulch.
Serpentine meadow E. of East Peak.

Poa alpina

Macoun's Brook. Allen's Ravine.

Poa

Allen's Ravine

Poa glauca

Macoun's Brook, Allen's Ravine below 1800 ft.

Festuca altaica

Common on serpentine.

Agropyrum biflorum

Bog south west of Flagstaff Peak.

A. novae-angliae?

Bog sw. of Flagstaff Peak. Devil's Gulch. Snow Brook.

A. caninum

Allen's Ravine below 2000 ft.

Scirpus caespitosus

Abundant.

Eriophorum Chamissonis

Bog sw. of Flagstaff Peak. Pond-holes in serpentine.

E. callitrix

Bog sw. of Flagstaff Peak.

E. polystachion

Bog sw. of Flagstaff Peak.

Carex aenea

Allen's Ravine, below 2000 ft.

C. tribuloides, var. reducta

Allen's Ravine, below 1800 ft.

Carex Denoyana, var. Bolanderi
Macoun's Brook.

C. trisperma

Bog sev. of Flagstaff Peak.

C. lagopina

Springy spots and crevices of Hamblende, north slope.

C. canescens

Pond at head of Ruisseau à Plaque à Malade.

C. brumescens.

Common

C. stellulata

Recurrent in boggy places

C. stipata

C. scirpoides

Common

C. deflexa

Allen's Ravine

C. pedunculata.

Macoun's Brook.

C. vaginata

Bog sev. of Flagstaff Peak.

C. laxiflora, v. leptonervia

Hamblende slopes.

C. arctata

Hamblende slopes.

C. capillaris

C. capillaris, var. elongata

Macoun's Brook.

Carex paupercula

Common by ponds on the Serpentine.

C. paupercula, var. irrigua.

Bogs and pond-shores.

C.



Cornice = 3 yms down. fruit eaten after frost.
Glasio = 2 yms.
White Spruce Beer = oak
Bevis = juniper

